

FIG. 1A

10
GENERAL DATA PROCESSING COMPUTER SYSTEM: MEMORY STORAGE CONTAINS MASTER DATABASE OF OPEN END MUTUAL FUND STATISTICS PREFERRED SPECIFICATION OF COMPUTER: CDROM DRIVE, MONITOR HARD DRIVE CONTAINING 420 MEGABYTES 8 MEGABYTES RAM, 486 CPU

12
ELIMINATE THOSE FUNDS IN MASTER DATABASE WHERE FUNDS ARE MARKED "NOT AVAILABLE FOR PURCHASE" PUT REMAINING FUNDS IN NEW DATABASE: "DATABASE #1"

14
ELIMINATE ALL FUNDS IN DATABASE #1 WHERE ASSET SIZE IS NOT EQUAL TO "USER DEFINED" STORING REMAINING FUNDS IN NEW DATABASE: "DATABASE #2"

16
SEARCH DATABASE "DATABASE #2" FOR THOSE FUNDS WHERE CATEGORY OF INVESTMENT STYLE = "USER DEFINED" AND PLACE IN NEW DATABASE: "DATABASE #3"

18
SEARCH DATABASE #3; SELECT THOSE FUNDS WHERE RETURN OVER TIME (T) > AVERAGE OF ALL FUNDS IN DATABASE #3 WHERE TIME (T) = "USER DEFINED" AND STORE IN NEW DATABASE NAMED: "DATABASE #4"

20
SEARCH DATABASE #3 AND SELECT FUNDS WHERE RISK OVER TIME (T) < AVERAGE OF ALL FUNDS IN DATABASE #3 WHERE TIME (T) = "USER DEFINED" AND RISK = "USER DEFINED". STORE SELECTED FUNDS IN NEW DATABASE NAMED: "DATABASE #5"

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FIG. 1B

22

COMBINE DATABASE "4" AND DATABASE "5" INTO NEW DATABASE NAMED: "INDEX"

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CREATE CONSTANT "NUMBER"; "NUMBER" = "USER DEFINED" TOTAL NUMBER OF OPEN END MUTUAL FUNDS TO BE INCLUDED WITHIN THE DATABASE "INDEX"

26

CREATE CONSTANT NAMED "CALCULATION" WHERE "CALCULATION" = "USER DEFINED" CHOICE OF < EQUALLY PRICE WEIGHTED >, < CAPITALIZATION WEIGHTED >, < GEOMETRICALLY WEIGHTED >, OR < CUSTOM WEIGHTED >

28

CREATE FORMULA: "OPTIMAL RISK/RETURN (T)" WHERE "OPTIMAL RISK/RETURN (T)" = "TOTAL RISK/RETURN (T)" - "TOTAL RISK/RETURN (T-1)" IF "TOTAL RISK/RETURN (T)" < "TOTAL RISK/RETURN T-1" THEN REPEAT UNTIL "TOTAL RISK/RETURN" YIELDS A GROUP OF FUNDS WHERE NUMBER = "NUMBER" AND NO OTHER COMBINATION OF FUNDS YIELDS A LOWER RISK/RETURN RATIO OVER TIME (T) AND NAME "FINAL INDEX"

30

CREATE FORMULA "TOTAL RISK/RETURN" WHERE "TOTAL RISK/RETURN" = SUM (TOTAL RISK FOR ALL FUNDS IN INDEX / TOTAL RETURN FOR ALL FUNDS IN INDEX) FOR TIME PERIOD (T)

32

PRINT OUT A CHART OF "FINAL INDEX" FOR TIME (T). RETURN TO BOX 10 TO REPEAT

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FIG. 2

